

Product datasheet for MR206050

Drd4 (NM_007878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drd4 (NM_007878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Drd4
Synonyms:	AW125663; D4R; Drd-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206050 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACAGCAGCGCTACTGAGGACGGTGGGCTGTTGGCCGGGCGTGGCCAGAATCCCTGGGGACTG
GCGCCGGGCTTGGGGGCGCGGGCGGGCGGCTGGTGGGGGCGTGCTGCTCATCGCTTGGTGTGGC
AGGGAACGCTCGTGTGCGTGAGCGTGGCTCCGAGCGCAGCTGCAGACCCACCACTACTTCATC
GTGAGCCTGGCTGCTGCCGACCTCCTCCTCGGGTGTGGTGTGCTCCTCTTTGTCTACTCCGAGGTCC
AGGGTGGCGTGTGGCTCCTGAGCCCCGTCTCTGTGACACGCTCATGGCCATGGACGTCATGCTGTGCAC
CGCTCCATCTTCAACCTGTGCGCCATCAGCGTGGACAGGTTTCGTGGCCGTGACCGTGCCGCTGCGCTAC
AACCAGCAGGGTCAAGTCCAGCTGCTGCTCATCGCCGCCACGTGGCTGCTGTCCGCCGCGGTGGTTCGC
CAGTGGTGTGTGGCTCAATGATGTGCCCGCCGCGATCCGGCCGTGTGCTGCCTGGAGAACCGAGACTA
TGTGGTCTACTCGTCCGTCTGCTCCTTCTCTGCCCTGTCCGCTCATGCTACTGCTTTACTGGGCCACT
TTCCGCGGCTGCGGGCGTGGGAGGCAGCCCGGCACACAACTTACAGCCGCGCGCCGCGCCGACCCA
GCGGCCCGCCCGCCGGTGTGCGACCTACTCAGGGTCCCTTCTCCAGACTGCCACCTCCCTTACC
CAGCCTCCGACGAGCCCCAGCGACTCCAGCAGCCGGAGTCAGAGCTCTCTCAGAGACCTGCAGCCCC
GGTGTCTGCTCGCTGATGCAGCTCTCCGCAACCTCCTGAGCCGCTTCCCGCAGAAGGAGAGCCGCCA
AGATCACGGGAAGGGAGCGCAAGGCAATGAGAGTCTGCGGTGGTAGTCGGGGCCTTCTGGTGTGTTG
GACGCCTTTCTCGTGGTGCACATCACGCGGGCGCTGTGTCCGGCTTGTTCGTGTCTCCGCGCCTGGTC
AGTGCCGTACCTGGCTAGGCTATGTCAACAGTGCCTCAACCCCATCATCTACACCATCTTCAACGCGG
AGTTTCGAAGTGTCTCCGCAAGACTCTCCGTCTCCGCTGC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206050 protein sequence
Red=Cloning site Green=Tags(s)

MGNSSATEDGGLLAGRPESLGTGAGLGGAGAAALVGGVLLIGLVLAGNSLVCVSVASERTLQTPTNYFI
 VSLAAADLLLAVLVLPFVYSEVQGGVWLLSPRLCDTLMAMDVMLCTASIFNLCAISVDRFVAVTVPLRY
 NQQGQCQLLLIAATWLLSAAVASPVVCGLNDVPGRDPVCCLENRDYVVVYSSVCSFFLPCPLMLLLYWAT
 FRGLRRWEAARHTKLHSRAPRRPSGPGPPVSDPTQGPFFPDCPPPLPSLRTSPSDSSRPESEL SQRPCSP
 GCLLADAALPQPPEPSSRRRRGAKITGRERKAMRVLVAVVVGAFVLCWTPFFVWHITRALCPACFVSPRLY
 SAVTWLGYVNSALNPIIYTIIFNAEFRSVFRKTLRLRC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007878

ORF Size: 1164 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_007878.3](#)

RefSeq Size: 1366 bp

RefSeq ORF: 1164 bp

Locus ID: 13491

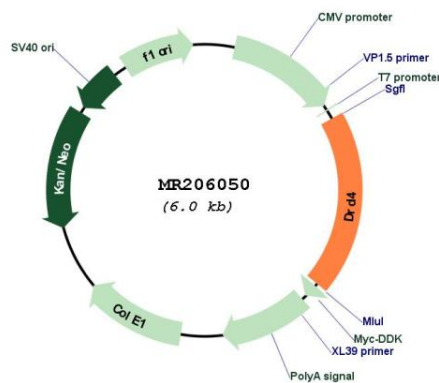
UniProt ID: [P51436](#)

Cytogenetics: 7 86.6 cM

MW: 41.5 kDa

Gene Summary: Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs. Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (By similarity). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells (PubMed:24048828).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206050